



STATE OF WASHINGTON
STATE BUILDING CODE COUNCIL

May 2018
Log No. _____

1. State Building Code to be Amended:

- | | |
|---|---|
| <input checked="" type="checkbox"/> International Building Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Fuel Gas Code |
| <input type="checkbox"/> International Existing Building Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input type="checkbox"/> International Residential Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> Wildland Urban Interface Code |
| <input type="checkbox"/> Uniform Plumbing Code | |

For the Washington State Energy Code, please see specialized [energy code forms](#)

Section(s):

(e.g.: Section: R403.2)

Title:

(e.g: Footings for wood foundations)

2. Proponent Name (Specific local government, organization or individual):

Proponent: 2024 International Building Code Technical Advisory Group

Title: TAG Member

Date: 9/10/2024

3. Designated Contact Person:

Name: Brett Conway

Title: Associate Principal

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4. **Proposed Code Amendment.** Reproduce the section to be amended by underlining all added language, striking through all deleted language. Insert new sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code, additional pages may be attached.

Clearly state if the proposal modifies an existing amendment or if a new amendment is needed. If the proposal modifies an **existing amendment**, show the modifications to the existing amendment by underlining all added language and striking through all deleted language. If a new amendment is needed, show the modifications to the **model code** by underlining all added language and striking through all deleted language.

Code(s) 2024 IBC **Section(s)** Chapter 29 – Table 2902.1

Enforceable code language must be used.

Amend section to read as follows:

This proposal is to incorporate new IBC 24 modifications with the existing WA state version of the table into an updated table. Refer the attached document which provides a detailed update of table 2902.1.

- Section 2902.5.1 (a WA amendment that is being incorporated) which guides drinking foundations is to remain.
- Section 2902.5.1-3 (a WA amendment that is being incorporated) which guides bottle filling stations is to remain.
- Section 2902.6 Small Occupancies (a WA amendment that is being incorporated) a section redacted by WA State is to remain redacted.

5. **Briefly explain your proposed amendment, including the purpose, benefits and problems addressed.** Specifically note any impacts or benefits to business, and specify construction types, industries and services that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

The proposed amendments seeking to unite the WA Statement amendments of this table and the updates provided by the IBC 2024 model code into a revised table. This table update is consistent with past versions of the table and will be familiar to architects, engineers and owners.

6. **Specify what criteria this proposal meets.** You may select more than one.

- The amendment is needed to address a critical life/safety need.
- The amendment clarifies the intent or application of the code.
- The amendment is needed to address a specific state policy or statute.
- The amendment is needed for consistency with state or federal regulations.
- The amendment is needed to address a unique character of the state.
- The amendment corrects errors and omissions.

7. **Is there an economic impact:** Yes No

If no, state reason:

This proposal is in many ways editorial with its integration of existing amendments but the scale of the modification of the model code suggests SBCC review is warranted.

If yes, provide economic impact, costs and benefits as noted below in items a – f.

- a. **Life Cycle Cost.** Use the OFM Life Cycle Cost [Analysis tool](#) to estimate the life cycle cost of the proposal using one or more typical examples. Reference these [Instructions](#); use these [Inputs](#). Webinars

on the tool can be found [Here](#) and [Here](#)). If the tool is used, submit a copy of the excel file with your proposal submission. If preferred, you may submit an alternate life cycle cost analysis.

- b. **Construction Cost.** Provide your best estimate of the construction cost (or cost savings) of your code change proposal.

\$None/square foot

(For residential projects, also provide \$None/ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

- c. **Code Enforcement.** List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:

[No additional time will be required for plan review or inspections.](#)

- d. **Small Business Impact.** Describe economic impacts to small businesses:

[No small business impacts with this update to Table 2902.1](#)

- e. **Housing Affordability.** Describe economic impacts on housing affordability:

- f. [No housing affordability impacts with this update to Table 2902.1](#)

- g. **Other.** Describe other qualitative cost and benefits to owners, to occupants, to the public, to the environment, and to other stakeholders that have not yet been discussed:

[This update folds into Table 2902.1 previously enacted WA amendments to the model code.](#)

Please send your completed proposal to: sbcc@des.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.

User notes:

About this chapter: Plumbing systems are another key element of any building. Chapter 29 provides the necessary number of plumbing fixtures, including water closets, lavatories, bathtubs and showers. The quality and design of each fixture must be in accordance with the International Plumbing Code®.

Note the following pages provide a proposed edit to 2024 – Chapter 29 - Table 2902.1 incorporating WA amendments. Other portions of this chapter related to drinking fountains and bottle filling stations and other related sections added below for visibility.

Specific edits to the table are noted below from proposer.

1. WA amendment section 2902.5.1-2902.5.4.3 address drinking fountains differently and with more details. RECOMMEND deleting drinking foundation column in the IBC 2024 model code (shown redacted in red).
2. WA amendment section 2902.5.4 -2902.5.4.3 address water bottle fillings which is not addressed in the IBC 2024. RECOMMEND keeping the WA AMENDMENTS intact.
3. WA amendment with its version of Table 2902.1 includes a "Occupancy" column (shown in red) adjacent to the "classification" column. Recommend including this column. This provides enhance clarity of uses and alignment with the IBC classification subdivisions.

SECTION 2902—MINIMUM PLUMBING FACILITIES

[P] 2902.1 Minimum number of fixtures. Plumbing fixtures shall be provided in the minimum number as shown in Table 2902.1 based on the actual use of the building or space. Uses not shown in Table 2902.1 shall be considered individually by the code official. The number of occupants shall be determined by this code.

2902.1 Minimum number of fixtures. Plumbing fixtures shall be provided in the minimum number shown in Table 2902.1. Uses not shown in Table 2902.1 shall be determined individually by the *building official* based on the occupancy which most nearly resembles the proposed occupancy. The number of occupants shall be determined by this code. Plumbing fixtures need not be provided for unoccupied buildings or facilities.

TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES^a
(See Sections 2902.1.1 and 2902.2)

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING- FOUNTAIN- (SEE SECTION 410) SEE SECTION 2902.5.1- 2902.5.4.3	OTHER
				MALE	FEMALE	MALE	FEMALE			
1	Assembly	A-1 ^d	Theaters and other buildings for the performing arts and motion pictures ^d	1 per 125	1 per 65	1 per 200		—	1 per 500	1 service sink
		A-2 ^d	Nightclubs, bars, taverns, dance halls and buildings for similar purposes ^d	1 per 40	1 per 40	1 per 75		—	1 per 500	1 service sink
		A-2 ^d	Restaurants, banquet halls and food courts ^d	1 per 75	1 per 75	1 per 200		—	1 per 500	1 service sink
		A-2 ^d	Casino gaming areas	1 per 100 for the first 400 and 1 per 250 for the remainder exceeding 400	1 per 50 for the first 400 and 1 per 150 for the remainder exceeding 400	1 per 250 for the first 750 and 1 per 500 for the remainder exceeding 750		—	1 per 1,000	1 service sink
		A-3 ^d	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums ^d	1 per 125	1 per 65	1 per 200		—	1 per 500	1 service sink
		A-3 ^d	Passenger terminals and transportation facilities ^d	1 per 500	1 per 500	1 per 750		—	1 per 1,000	1 service sink
		A-3 ^d	Places of worship and other religious services ^d	1 per 150	1 per 75	1 per 200		—	1 per 1,000	1 service sink

		A-5 ^f	Coliseums, arenas, skating rinks, pools and tennis courts for indoor sporting events and activities ^f	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200	1 per 150	—	1 per 1,000	1 service sink
		A-5 ^f	Stadiums, amusement parks, bleachers and grandstands for outdoor sporting events and activities ^f	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200	1 per 150	—	1 per 1,000	1 service sink
2	Business	B	Buildings for the transaction of business, <u>nonmedical</u> professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		—	1 per 100	1 service sink ^g
		B	Ambulatory care facilities and outpatient clinics	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 50		—	1 per 100	1 service sink per floor
3	Educational	E ^g	Educational facilities	1 per 50 1 per 35	1 per 50 1 per 25	1 per 50 1 per 85	1 per 50 1 per 50	—	1 per 100	1 service sink

TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES^a
(See Sections 2902.1.1 and 2902.2)—continued

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING- FOUNTAIN- (SEE SECTION 410)	OTHER	
				MALE	FEMALE	MALE	FEMALE				
4	Factory and industrial	F-1 AND F-2	Structures in which occupants are engaged in work fabricating, assembly or processing of products or materials	1 per 100		1 per 100		— Check State (UPC)	1 per 400	1 service sink	
5	Institutional	I-1 ^b	Alcohol and drug centers ^b Congregate care facilities ^b Group homes ^b Halfway houses ^b Social rehabilitation facilities ^b Foster care facilities ^b	1 per 10 care recipients		1 per 10 care recipients		1 per 8 care recipients	—	—	
			Sleeping units for care recipient ^c	1 per 2 sleeping units		1 per 2 sleeping units		1 per 8 sleeping units			
			Assisted living and residential board and care facilities with care recipients who receive custodial care	Dwelling units for care recipients	1 per dwelling unit		1 per dwelling unit		1 per dwelling unit	—	1 kitchen sink per dwelling unit
				Employee facilities	1 per 60 care recipient units		1 per 60 care recipient units		—	1 per 100	1 service sink per floor
				Visitor facilities	1 per 75 care recipient units.		1 per 75 care recipient units		—	—	—
			Nursing homes ^b	Sleeping units for care recipients ^c	1 per 2 care recipient sleeping units		1 per 2 care recipient sleeping units		1 per 8 care recipient sleeping units	—	—
				Employee facilities	1 per 60 care recipient units		1 per 60 care recipient sleeping units		—	1 per 100	1 service sink per floor
	Visitor facilities	1 per 75 care recipient units		1 per 75 care recipient sleeping rooms		—	—	—			

TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES^a
 (See Sections 2902.1.1 and 2902.2)—continued

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410)	OTHER
				MALE	FEMALE	MALE	FEMALE			
5	Institutional— continued	I-2 ^b	Hospitals ^b	Sleeping units for care recipients	1 per care recipient sleeping unit ^c		1 per care recipient sleeping unit ^c	1 per 100 15 care recipient sleeping units	—	
		I-2 ^b		Care recipient treatment areas	1 per 25 care recipient treatment rooms		1 per 50 care recipient treatment rooms	—	1 per 100	
		I-2 ^b		Employee facilities	1 per 25 care recipient sleeping units or treatment room	1 per 25 care recipient sleeping units or treatment room	1 per 50-35 care recipient sleeping room or treatment room	—	1 per 100	1 service sink per floor
		I-2 ^b		Visitor facilities	1 per 75 care recipient sleeping units or treatment room	1 per 75 care recipient sleeping units or treatment room	1 per 50 care recipient sleeping room or treatment room	—	1 per 500	—
		I-3 ^b	Prisons ^b	1 per cell		1 per cell	1 per 15	1 per 100	1 service sink	
		I-3 ^b	Reformatories, detention centers and correctional centers ^b	Cells	1 per 15		1 per 15	1 per 15	1 per 100	1 service sink
		I-3 ^b		Congregate Living Facilities	1 per 15		1 per 15	1 per 15	1 per 100	1 service sink
		I-3 ^b		Employees	1 per 25		1 per 35	—	1 per 100	—
		I-4	Adult day care and child day care	1 per 15		1 per 15	1	1 per 100	1 service sink	
		6	Mercantile	M	Retail stores, service stations, shops, salesrooms, markets and shopping centers	1 per 500		1 per 750	—	1 per 1,000
7	Residential	R-1	Hotels, motels, boarding houses (transient)	1 per dwelling or sleeping unit		1 per dwelling or sleeping unit	1 per dwelling or sleeping unit	—	1 service sink	
		R-2	Dormitories, fraternities, sororities and boarding houses (not transient)	1 per 10		1 per 10	1 per 8	1 per 100	1 service sink	

TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES^a
 (See Sections 2902.1.1 and 2902.2)—continued

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410)	OTHER
				MALE	FEMALE	MALE	FEMALE			
7	Residential— continued	R-2	Apartment house	1 per dwelling unit or sleeping unit		1 per dwelling unit or sleeping unit		1 per dwelling unit or sleeping unit	—	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per 20 dwelling units
		R-3	Congregate living facilities with 16 or fewer care recipients receiving custodial care	1 per 10		1 per 10		1 per 8		1 kitchen sink
			One- and two-family dwellings and lodging houses with five or fewer guestrooms	1 per dwelling unit		1 per dwelling unit 1 per 10		1 per dwelling unit	—	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per dwelling unit
		R-4	Congregate living facilities with 16 or fewer care recipients receiving custodial care	1 per 10		1 per 10		1 per 8		
8	Storage	S-1, S-2	Structures for the storage of goods, warehouses, storehouse and freight depots. Low and Moderate Hazard.	1 per 100		1 per 100		— Check State (UPC)	1 per 1,000	1 service sink
a.		a. The fixtures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction of the number of persons indicated. The number of occupants shall be determined by this code, except with respect to Group E occupancies the provisions of note “g” should apply. b. Toilet facilities for employees shall be separate from facilities for inmates or care recipients. c. A single-occupant toilet room with one water closet and one lavatory serving not more than two adjacent patient sleeping units shall be permitted, provided that each patient sleeping unit has direct access to the toilet room and provisions for privacy for the toilet room user are provided. d. The occupant load for seasonal outdoor seating and entertainment areas shall be included when determining the minimum number of facilities required. e. For business and mercantile classifications with an occupant load of 15 or fewer, a service sink shall not be required. f. The required number and type of plumbing fixtures for indoor and outdoor swimming pools shall be in accordance with Section 609 of the <i>International Swimming Pool and Spa Code</i> . g. For Group E occupancies: The number of occupants shall be determined by using a calculation of 100 square feet gross building area per student for the minimum number of plumbing fixtures.								
h.		i.								

Added here for reference.

These items are related to the Table 2902.1

The following are WA State amendments being added to the 2024 IBC model code without modification

2902.5.1 Drinking fountain number. Occupant loads over 30 shall have one drinking fountain for the first 150 occupants, then one per each additional 500 occupants.

EXCEPTIONS:

1. Sporting facilities with concessions serving drinks shall have one drinking fountain for each 1000 occupants.
2. A drinking fountain need not be provided in a drinking or dining establishment.

2902.5.2 Multistory buildings. Drinking fountains shall be provided on each floor having more than 30 occupants in schools, dormitories, auditoriums, theaters, offices and public buildings.

2902.5.3 Penal institutions. Penal institutions shall have one drinking fountain on each cell block floor and one on each exercise floor.

2902.5.4 Bottle filling stations. Bottle filling stations shall be provided in accordance with Sections 2902.5.4.1 through 2902.5.4.3.

2902.5.4.1 Group E occupancies. In Group E occupancies with an occupant load over 30, a minimum of one bottle filling station shall be provided on each floor. This bottle filling station may be integral to a drinking fountain.

2902.5.4.2 Substitution. In all occupancies that require more than two drinking fountains per floor or secured area, bottle filling stations shall be permitted to be substituted for up to 50 percent of the required number of drinking fountains.

2902.5.4.3 Accessibility. At least one of the required bottle filling stations shall be located in accordance with Section 309 of ICC A117.1.

The following is a WA State amendment being added to the 2024 IBC model code without modification. This one included redacting a IBC 2024 code section.

[P] ~~2902.6 Small occupancies. Drinking fountains shall not be required for an occupant load of 15 or fewer.~~

~~2902.6—This section is not adopted.~~

The following is a WA State amendment being deleted since this requirement has been added to Table 2902.1

~~2902.8 Dwelling units. Dwelling units shall be provided with a kitchen sink.~~

The following is a WA State amendment being added to the 2024 IBC model code without modification.

2902.9 Water. Each required sink, lavatory, bathtub and shower stall shall be equipped with hot and cold running water necessary for its normal operation.

